

Knowledge Economy Indicators

Development of Innovative and Reliable Indicator Systems

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Framework Programme 6
Integrating and Strengthening the European Research Area
Policy Orientated Research

Project Period:
1. September 2004 – 28. February 2007

EC contribution: 1.58 M€

Indicators for Policy-orientated Research in the EU

- ▶ EU goals:
 - Lisbon Strategy ([WWW](#))
 - Barcelona Council ([WWW](#))
- ▶ JRC ISPRA, Italien (<http://www.jrc.cec.eu.int/uasa>)
- ▶ Examples for composite indicators
 - ▶ DG RTD: Knowledge-based Economy
 - ▶ DG MARKT: Internal Market Index
 - ▶ DG ENTR: e-Business Readiness
- ▶ DG RTD: Key Figures 2003 - 2004 / 2005
 - ▶ KBE Indicators: *investment* und *performance*
 - ▶ http://europa.eu.int/comm/research/era/pdf/indicators/benchmarking2003_en.pdf
- ▶ Policy-orientated research (FP6)

Aims of the KEI project

- ▶ KEI will focus on indicators and composite indicators
 - ▶ Review of state-of-the-art methodology
 - ▶ Main thematic areas in relation to Lisbon and Barcelona objectives
 - ▶ Forward looking policy and indicator analysis
- ▶ Development of innovative approaches
 - ▶ Appropriate and improved statistical methodology
 - ▶ Multi-criteria methods
 - ▶ Aggregation and weighting techniques
 - ▶ Elaboration of sensitivity analysis
 - ▶ Evaluation of analytical properties of indicators
 - ▶ Investigation of adequate presentational techniques
 - ▶ Support by large-scale simulation study
 - ▶ Scenario analysis in co-operation with Commission services

→ Policy-orientated research (FP6)

Partners of KEI

Eberhard Karls University of Tübingen: Ralf Münnich (CO)

Joint Research Center, Ispra: Andrea Saltelli

Katholieke Universiteit Leuven: Tom van Puyenbroeck

University of Maastricht, MERIT: Anthony Arundel

Statistics Finland: Mikael Åkerblom

Structure of the Project

Defining the Knowledge-Based Economy

Indicators for the KBE

Statistical Analysis for KBE Indicators:

- ▶ Mathematical and statistical properties of indicators
- ▶ Data quality including missing value analysis

The Way Forward: Innovative Use of KBE Indicators

Composite Indicators for the KBE

Role of Multinationals for Information on R & D

Simulation Study:

- ▶ Investigation of outcomes via simulation study
- ▶ Scenario analysis

Workshops and Tasks of the Project

- ▶ Five workshops with special focuses
 - Tübingen Overview of KEI research areas, March 2005
 - Maastricht Knowledge-economy indicators, October 2005
 - Helsinki Multinationals, March 2006
 - Leuven Indicator methodology, September 2006
 - Ispra Final conference, February 2007
- ▶ Co-operation with other projects / researchers in the KEI area
- ▶ Exchange of information via KEInews and WEB page
- ▶ Contribution to journals and Commission publications (e.g. Statistics in Focus)
- ▶ Final reports
 - ▶ Overview of KEI achievements
 - ▶ Detailed workpackage reports
 - ▶ Policy analysis of knowledge economy indicators

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